E-2200x Hydrogen Fuel Cell

Features

- Robust, reliable power
- Optimized PEM technology for high duty cycle, grid-support applications
- Parallel, modular chassis design, N+1 capable
- Scalable for higher capacity applications
- Multiple bus / Multiple voltage site solutions
- Indoor shelter 23" rack mount and outdoor cabinetized configurations

The E-2200x™ hydrogen fuel cell is designed for grid-support and high duty cycle customer applications. It offers robust reliability and comes with an industry-leading warranty, providing extended runtime for critical equipment. The E-2200x™ fuel cell system provides DC power for equipment needing up to 2,200 Watts in an 8U rack-mount chassis. Multiple systems may be combined for higher power applications and N+1 redundancy. Because the only emissions are warm air and a small amount of water, the E-2200x™ is exempt from the most stringent air quality standards and is a valuable asset for use in CO2 reduction efforts.

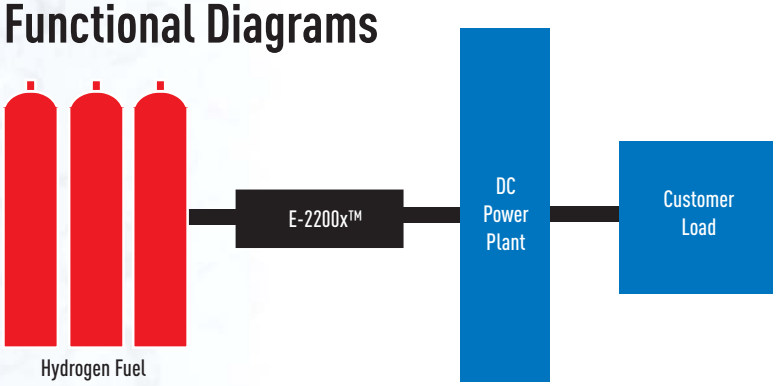
ReliOn®

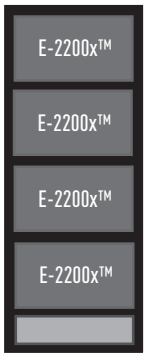
Fuel Cells

Simply Powerful

Specifications

Functional Diagrams





- Rack and cabinet options enable higher capacity requirements
- Compact chassis allow integration with batteries and DC to DC conversion equipment

The E-2200x™ fuel cell system is well-suited for a variety of applications:

3G and 4G wireless
Wireless backhaul/T1/Fiber/Microwave
Transportation (Signals / Signs)
P25 / Tetra
SCADA
Disaster response / First Responder
Microwave communications
Radio/Repeater sites
Flight guidance ILS
Surveillance / Security systems
Broadband DLC
Off-grid hybrid primary power

Product Specifications

Physical	Dimensions (w x d x h)	21.34" x 24" x 14" / 54.2 cm x 61 cm x 35.6 cm
	Weight	113 lbs / 51.4 kg
	Mounting	23" rack mount (8U)
Performance	Maximum power	2,200W in single chassis / Scalable to 20kW in racks or cabinets
	Rated current	0 to 93A @ 24V / 0 to 46.5A @ 48V
	DC voltage	24 / 48 V nominal
Fuel	Composition	Standard industrial grade hydrogen (99.95%)
	Supply pressure to unit	8 to 12 psig / 55.1 to 82.8 KPag / 0.55 to 0.83 bar operating
	Consumption	27 slpm @ 2,200W
	Hydrogen Storage Capacity	n/a (modular storage solutions available from 8kWh to 300kWh)
Operation	Ambient temperature	23ºF to 122ºF / -5ºC to 50ºC Optional -40ºC to 50ºC in hardened outdoor cabinet
	Relative humidity	0-95% non-condensing
	Altitude	-197 ft to 13,800 ft / -60m to 4,206m
	Location	Indoors or hardened outdoor cabinet
Safety	Compliance	CSA (others pending)
Emissions	Water	Max 25mL / kWh (primarily vapor)
	Noise	Max 65 dBA @ 4.9 ft / 1.5m when ducted outside
Monitoring / Control	Remote	System configuration & status / Historical & operational data
	Communications	Standard: USB / Ethernet / Dry contact / Front panel display / SNMP / Web interface Optional: Wireless modem - CDMA / GSM / Ethernet switch

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ReliOn®
FUEL CELLS
SIMPLY POWERFUL

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